

1261609/2022/O/o PED/INFRA-1/RDSO

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Date: 05/07/2022

Document Title: STR for Manufacturing and supply for Battery operated Rail Drilling machine



सत्यमेव जयते

Government of India

**ITEM SPECIFIC GUIDELINES
&
Schedule of Technical Requirement
FOR
MANUFACTURE AND SUPPLY
OF
Battery operated Rail Drilling Machine
No. TM/SM/STR/468/RDM(BO)**

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SCHEDULE OF TECHNICAL REQUIREMENTS FOR MANUFACTURE AND SUPPLY OF BATTERY OPERATED RAIL DRILLING MACHINE

1. SCOPE

The schedule of technical requirements covers the norms for manufacture and supply of Battery operated rail Drilling machine

2. Referenced Documents:

- Indian Railway Standard specification for Battery operated rail Drilling machine
- ii) ISO Apex Documents of RDSO.

3. REQUIREMENTS

The vendors seeking approval shall comply all the below mentioned requirements.

General and Manufacturing Facilities:**General:**

The firm should possess experienced and sufficient man power like manager, supervisors, laboratory in-charge, quality controller and workmen. The necessary qualification of the work force should depend upon their job requirements. The firm should maintain approved QAP, copy of which should be available at the firm's premises. The specification and drawings along with all the IS/BIS specifications mentioned for the item should be available at site for reference. The firm should preferably possess a valid ISO certification.

The firm should have adequate Space for stacking/storage of Raw material & finished product. The lay out plan of firm should be available.

Covered area free from dampness and humidity with adequate space for storage of related components.

The firm should have environment conducive to the production of Quality goods. (Orderliness, lighting, cleanliness in and around working conditions etc.)

The weighing facilities for measuring various raw material constituents and the product at various stages.

Facilities for installation of components.

4. TESTING FACILITIES:

The following testing facilities and measuring instruments should be available with the firm.

A separate room/laboratory, mixing with all testing facilities required for testing of the component of product.

Grinding machine, cutting machine, lathe machine and necessary tools with measurement gauges such as surface plate, height gauge and Vernier Calipers with a least count of 0.02 mm should be available in the tool room.

Steel Scale (Linear), weighing machine, Thickness gauge, Hygrometer (Humidity Recorder) of suitable range should be available.

Any other facility required for testing method given in the specification.

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5. Major Components details:

S.No.	Name of component	Self-make	Procured from outside agency	Remark
1.	Engine	Drawing details, manufacturing details should be available.	Details of Outside agency should be available.	Raw material / equipment shall be procured only from the reputed & well-proven sources, conforming to relevant standards. Critical components shall be procured from reputed OEMs or their accredited agents / RDSO approved sources.
2.	handle	-Do-	-Do-	
3.	clamps	-Do-	-Do-	
4.	guards	-Do-	-Do-	

6. Quality Control Requirements:

There should be a system to ensure the traceability of the product from raw material sample to finished product stage. This system should also facilitate to identify the raw material composition from the finished product stage.

There should be QAP for the product detailing following aspects.

Organizational chart

Flow Process Chart

Stage inspection details

Plants and machinery as per STR.

All the relevant specification and IS Standards should be available with the firm.

7. Calibration Record :

S.No.	Name of the machine & quantity	Year of manufacture	Capacity	Date of calibration	Due date of calibration

8. Manuals:

The firm should have following manuals of product.

- (i) Operations and Maintenance manual
- (ii) Service manual

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9. **Power availability (KVA):**Following document should be available.

- General allotted capacity
- Standby generator and its capacity, if available.
- Name the party/person in whose name the power is sanctioned and your agreement with the party/person (Support with documents)

10. Details of Manpower:

The firm should have separate in-charge of Quality Control & production.

The firm should have minimum 01no. skilled staff and 02 no. un-skilled staff.

S.No.	Name of Staff	Designation	Qualification	Experience

11. Raw material record:

The firm should maintain list for raw material/bought outs.

S.No.	Name of Item	Quantity	Date of Incoming	Approved source (Yes /No)	Details of source

12. Documents:

Ownership details of the firm should be available.

The firm should have necessary specifications, ISO apex document, IS Codes, Drawings, STR/Specification guidelines.

The firm should possess digital signature & its registration with IREPS.

The firm should have valid SSI/NSIC/ Factory license.

The firm should have valid Gem registration.

The firm should have Local content details.

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